

## EAST Search History

| Ref # | Hits | Search Query  | DBs  | Default Operator | Plurals | Time Stamp          |
|-------|------|---|--|------------------|---------|---------------------|
| L1    | 2    | "20030169440"   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/10/30<br>12:03 |
| L2    | 2    | "20040085591"   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/10/30<br>12:03 |
| L3    | 4944 | (reduc\$3 decreas\$3)<br>with image with noise<br>and bit             | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/10/30<br>12:03 |
| L4    | 885  | 358/3.26.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/10/30<br>12:03 |
| L5    | 60   | L3 and L4   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/10/30<br>12:03 |
| L6    | 332  | (reduc\$3 decreas\$3)<br>with image with noise<br>and bit and half\$3 | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/10/30<br>12:03 |
| L7    | 27   | L4 and L6   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/10/30<br>12:03 |
| L8    | 1677 | (reduc\$3 decreas\$3)<br>with (noise bit) and<br>noise and half\$3    | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/10/30<br>12:03 |
| L9    | 76   | L4 and L8   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/10/30<br>12:03 |

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| L10 | 78390 | (reduc\$3 decreas\$3)<br>with (noise bit) and<br>noise and bit  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L11 | 107   | L4 and L10  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L12 | 4     | ("5276726"  <br>"5574212"   "5625137"<br>  "5670719").PN. OR<br>("7130477").URPN.   | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |
| L13 | 6     | ("5528339"  <br>"5724456"   "5774599"<br>  "6285798"  <br>"6370265"  <br>"6563945").PN. OR<br>("7116838").URPN.   | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |
| L14 | 9     | ("4654721"  <br>"5121447"   "5608821"<br>  "5809177").PN. OR<br>("6449061").URPN.   | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |
| L15 | 48    | ("4654721"  <br>"4829587"   "4924322"<br>  "5060284"  <br>"5107346"   "5121447"<br>  "5210602"  <br>"5243445"   "5258854"<br>  "5271070"  <br>"5274472"   "5317653"<br>  "5327256"  <br>"5374997"   "5404176"<br>  "5410615"  <br>"5442461"   "5506699"<br>  "5528384"  <br>"5530561"  <br>"5608821").PN. OR<br>("5809177").URPN. | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |
| L16 | 39    | ("43397764"  <br>"4733230"   "4876610"<br>  "4924322"  <br>"4955065"   "4969052"<br>  "5014333"  <br>"5045952"   "5077615"<br>  "5077812"  <br>"5130823").PN. OR<br>("5317653").URPN.   | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |

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| L17 | 69   | "4955065"   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L18 | 508  | 358/534.ccls.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L19 | 106  | huang-yin-chun.in.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L20 | 7    | cheng-chung-wei.in.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L21 | 2    | "20030169440"   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L22 | 2    | "20040085591"   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L23 | 4944 | (reduc\$3 decreas\$3)<br>with image with noise<br>and bit             | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L24 | 885  | 358/3.26.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L25 | 60   | L23 and L24   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L26 | 332  | (reduc\$3 decreas\$3)<br>with image with noise<br>and bit and half\$3 | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |

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| L27 | 4     | ("5276726"  <br>"5574212"   "5625137"<br>  "5670719").PN. OR<br>("7130477").URPN.   | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |
| L28 | 9     | ("4654721"  <br>"5121447"   "5608821"<br>  "5809177").PN. OR<br>("6449061").URPN.   | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |
| L29 | 27    | L24 and L26   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L30 | 1677  | (reduc\$3 decreas\$3)<br>with (noise bit) and<br>noise and halfton\$3   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L31 | 76    | L24 and L30   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L32 | 78390 | (reduc\$3 decreas\$3)<br>with (noise bit) and<br>noise and bit  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L33 | 107   | L24 and L32   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L34 | 48    | ("4654721"  <br>"4829587"   "4924322"<br>  "5060284"  <br>"5107346"   "5121447"<br>  "5210602"  <br>"5243445"   "5258854"<br>  "5271070"  <br>"5274472"   "5317653"<br>  "5327256"  <br>"5374997"   "5404176"<br>  "5410615"  <br>"5442461"   "5506699"<br>  "5528384"  <br>"5530561"  <br>"5608821").PN. OR<br>("5809177").URPN. | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |

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|-----|-----|---|--|----|----|---------------------|
| L35 | 39  | ("43397764"  <br>"4733230"   "4876610"<br>  "4924322"  <br>"4955065"   "4969052"<br>  "5014333"  <br>"5045952"   "5077615"<br>  "5077812"  <br>"5130823").PN. OR<br>("5317653").URPN. | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |
| L36 | 6   | ("5528339"  <br>"5724456"   "5774599"<br>  "6285798"  <br>"6370265"  <br>"6563945").PN. OR<br>("7116838").URPN.   | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |
| L37 | 508 | 358/534.ccls.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L38 | 106 | huang-yin-chun.in.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L39 | 69  | "4955065"   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L40 | 7   | cheng-chung-wei.in.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L41 | 60  | L23 and L24   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L42 | 885 | 358/3.26.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L43 | 46  | (reduc\$3 decreas\$3)<br>near3 (bit color adj<br>level) same (noise<br>artifact) and halfton\$3   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |

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|-----|------|---|--|----|----|---------------------|
| L44 | 1359 | (reduc\$3 decreas\$3)<br>with (bit color adj<br>level) and half\$3  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L45 | 41   | L42 and L44   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L46 | 37   | ("3244808"  <br>"4667251"   "5111310"<br>  "5323247"  <br>"5341228"  <br>"5477305").PN. OR<br>("5553200").URPN. | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |
| L47 | 332  | (reduc\$3 decreas\$3)<br>with image with noise<br>and bit and half\$3   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L48 | 885  | 358/3.26.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L49 | 27   | L47 and L48   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L50 | 9    | (reduc\$3 decreas\$3)<br>with (image near<br>noise) and ((reduc\$3<br>decreas\$3)near3 bit)<br>and half\$3      | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L51 | 211  | (reduc\$3 decreas\$3)<br>near2 bit same (noise<br>near2 level)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L52 | 1    | (reduc\$3 decreas\$3)<br>near2 bit same (noise<br>near2 level) and half\$3                                      | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L53 | 2    | "20030169440"   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |

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|-----|------|---|--|----|----|---------------------|
| L54 | 2    | "20040085591"   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L55 | 4944 | (reduc\$3 decreas\$3)<br>with image with noise<br>and bit                         | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L56 | 885  | 358/3.26.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L57 | 60   | L55 and L56   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L58 | 332  | (reduc\$3 decreas\$3)<br>with image with noise<br>and bit and half\$3             | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L59 | 4    | ("5276726"  <br>"5574212"   "5625137"<br>  "5670719").PN. OR<br>("7130477").URPN. | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |
| L60 | 9    | ("4654721"  <br>"5121447"   "5608821"<br>  "5809177").PN. OR<br>("6449061").URPN. | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |
| L61 | 27   | L56 and L58   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L62 | 1677 | (reduc\$3 decreas\$3)<br>with (noise bit) and<br>noise and half\$3                | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L63 | 76   | L56 and L62   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |

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|-----|-------|---|--|----|----|---------------------|
| L64 | 78390 | (reduc\$3 decreas\$3)<br>with (noise bit) and<br>noise and bit  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L65 | 107   | L56 and L64   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L66 | 48    | ("4654721"  <br>"4829587"   "4924322"<br>  "5060284"  <br>"5107346"   "5121447"<br>  "5210602"  <br>"5243445"   "5258854"<br>  "5271070"  <br>"5274472"   "5317653"<br>  "5327256"  <br>"5374997"   "5404176"<br>  "5410615"  <br>"5442461"   "5506699"<br>  "5528384"  <br>"5530561"  <br>"5608821").PN. OR<br>("5809177").URPN. | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |
| L67 | 39    | ("43397764"  <br>"4733230"   "4876610"<br>  "4924322"  <br>"4955065"   "4969052"<br>  "5014333"  <br>"5045952"   "5077615"<br>  "5077812"  <br>"5130823").PN. OR<br>("5317653").URPN.   | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |
| L68 | 6     | ("5528339"  <br>"5724456"   "5774599"<br>  "6285798"  <br>"6370265"  <br>"6563945").PN. OR<br>("7116838").URPN.   | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |
| L69 | 508   | 358/534.ccls.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L70 | 106   | huang-yin-chun.in.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |



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|-----|-------|---|--|----|----|---------------------|
| L71 | 69    | "4955065"   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L72 | 7     | cheng-chung-wei.in.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L73 | 4944  | (reduc\$3 decreas\$3)<br>with image with noise<br>and bit   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L74 | 885   | 358/3.26.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L75 | 1677  | (reduc\$3 decreas\$3)<br>with (noise bit) and<br>noise and half\$3  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L76 | 78390 | (reduc\$3 decreas\$3)<br>with (noise bit) and<br>noise and bit  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L77 | 39    | ("43397764"  <br>"4733230"   "4876610"<br>  "4924322"  <br>"4955065"   "4969052"<br>  "5014333"  <br>"5045952"   "5077615"<br>  "5077812"  <br>"5130823").PN. OR<br>("5317653").URPN. | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |
| L78 | 508   | 358/534.ccls.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L79 | 4     | ("5276726"  <br>"5574212"   "5625137"<br>  "5670719").PN. OR<br>("7130477").URPN.   | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |

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|-----|-----|---|--|----|----|---------------------|
| L80 | 2   | "20030169440"   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L81 | 60  | L73 and L74   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L82 | 2   | "20040085591"   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L83 | 76  | L74 and L75   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L84 | 9   | ("4654721"  <br>"5121447"   "5608821"<br>  "5809177").PN. OR<br>("6449061").URPN.   | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |
| L85 | 332 | (reduc\$3 decreas\$3)<br>with image with noise<br>and bit and half\$3   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L86 | 27  | L74 and L85   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L87 | 107 | L74 and L76   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L88 | 48  | ("4654721"  <br>"4829587"   "4924322"<br>  "5060284"  <br>"5107346"   "5121447"<br>  "5210602"  <br>"5243445"   "5258854"<br>  "5271070"  <br>"5274472"   "5317653"<br>  "5327256"  <br>"5374997"   "5404176"<br>  "5410615"  <br>"5442461"   "5506699"<br>  "5528384"  <br>"5530561" | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |

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|-----|------|---|--|----|----|---------------------|
|     |      | "5608821").PN. OR<br>("5809177").URPN.  |  |    |    |                     |
| L89 | 6    | ("5528339"  <br>"5724456"   "5774599"<br>  "6285798"  <br>"6370265"  <br>"6563945").PN. OR<br>("7116838").URPN. | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |
| L90 | 106  | huang-yin-chun.in.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L91 | 69   | "4955065"   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L92 | 7    | cheng-chung-wei.in.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L93 | 60   | L73 and L74   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L94 | 885  | 358/3.26.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L95 | 46   | (reduc\$3 decreas\$3)<br>near3 (bit color adj<br>level) same (noise<br>artifact) and half\$3                    | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L96 | 1359 | (reduc\$3 decreas\$3)<br>with (bit color adj<br>level) and half\$3  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L97 | 41   | L94 and L96   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |

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|------|-----|---|--|----|----|---------------------|
| L98  | 37  | ("3244808"  <br>"4667251"   "5111310"<br>  "5323247"  <br>"5341228"  <br>"5477305").PN. OR<br>("5553200").URPN. | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |
| L99  | 9   | (reduc\$3 decreas\$3)<br>with (image near<br>noise) and ((reduc\$3<br>decreas\$3)near3 bit)<br>and half\$3      | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L100 | 885 | 358/3.26.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L101 | 332 | (reduc\$3 decreas\$3)<br>with image with noise<br>and bit and half\$3   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L102 | 27  | L101 and L100   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L103 | 211 | (reduc\$3 decreas\$3)<br>near2 bit same (noise<br>near2 level)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L104 | 1   | (reduc\$3 decreas\$3)<br>near2 bit same (noise<br>near2 level) and half\$3                                      | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L105 | 0   | 358/427.ccls.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L106 | 588 | 358/3.27.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L107 | 667 | 358/3.06.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |

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| L108 | 1346 | (reduc\$3 decreas\$3)<br>with bit and half\$3                              | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L109 | 601  | (reduc\$3 decreas\$3)<br>near2 bit and half\$3                             | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L110 | 511  | (reduc\$3 decreas\$3)<br>near2 bit and half\$3<br>and color                | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L111 | 128  | (reduc\$3 decreas\$3)<br>near2 bit same half\$3<br>and color               | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L112 | 68   | (reduc\$3 decreas\$3)<br>near2 bit same half\$3<br>same color              | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L113 | 26   | (reduc\$3 decreas\$3)<br>near2 bit same half\$3<br>same color and<br>noise | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L114 | 49   | (reduc\$3 decreas\$3)<br>with bit same half\$3<br>same color and noise     | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L115 | 84   | (compos\$3 combin\$3<br>add\$3) with half\$3<br>adj pattern                | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L116 | 6    | L108 and L115  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L117 | 19   | "6606168"  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |

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|------|------|---|--|----|----|---------------------|
| L118 | 3513 | (reduc\$3 decreas\$3)<br>near2 noise and (reduc<br>\$3 decreas\$3) near2<br>bit             | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L119 | 77   | (reduc\$3 decreas\$3)<br>near2 noise and (reduc<br>\$3 decreas\$3) near2<br>bit and half\$3 | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L120 | 2    | "20030169440"   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L121 | 2    | "20040085591"   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L122 | 4944 | (reduc\$3 decreas\$3)<br>with image with noise<br>and bit                                   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L123 | 885  | 358/3.26.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L124 | 60   | L122 and L123   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L125 | 332  | (reduc\$3 decreas\$3)<br>with image with noise<br>and bit and half\$3                       | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L126 | 4    | ("5276726"  <br>"5574212"   "5625137"<br>  "5670719").PN. OR<br>("7130477").URPN.           | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |
| L127 | 9    | ("4654721"  <br>"5121447"   "5608821"<br>  "5809177").PN. OR<br>("6449061").URPN.           | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |

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| L128 | 27    | L123 and L125   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L129 | 1677  | (reduc\$3 decreas\$3)<br>with (noise bit) and<br>noise and half\$3  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L130 | 76    | L123 and L129   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L131 | 78390 | (reduc\$3 decreas\$3)<br>with (noise bit) and<br>noise and bit  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L132 | 107   | L123 and L131   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L133 | 48    | ("4654721"  <br>"4829587"   "4924322"<br>  "5060284"  <br>"5107346"   "5121447"<br>  "5210602"  <br>"5243445"   "5258854"<br>  "5271070"  <br>"5274472"   "5317653"<br>  "5327256"  <br>"5374997"   "5404176"<br>  "5410615"  <br>"5442461"   "5506699"<br>  "5528384"  <br>"5530561"  <br>"5608821").PN. OR<br>("5809177").URPN. | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |
| L134 | 39    | ("43397764"  <br>"4733230"   "4876610"<br>  "4924322"  <br>"4955065"   "4969052"<br>  "5014333"  <br>"5045952"   "5077615"<br>  "5077812"  <br>"5130823").PN. OR<br>("5317653").URPN.   | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |

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|------|-------|---|--|----|----|---------------------|
| L135 | 6     | ("5528339"  <br>"5724456"   "5774599"<br>  "6285798"  <br>"6370265"  <br>"6563945").PN. OR<br>("7116838").URPN. | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |
| L136 | 508   | 358/534.ccls.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L137 | 106   | huang-yin-chun.in.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L138 | 69    | "4955065"   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L139 | 7     | cheng-chung-wei.in.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L140 | 4944  | (reduc\$3 decreas\$3)<br>with image with noise<br>and bit   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L141 | 885   | 358/3.26.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L142 | 1677  | (reduc\$3 decreas\$3)<br>with (noise bit) and<br>noise and half\$3  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L143 | 78390 | (reduc\$3 decreas\$3)<br>with (noise bit) and<br>noise and bit  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |



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|------|-----|---|--|----|----|---------------------|
| L144 | 39  | ("43397764"  <br>"4733230"   "4876610"<br>  "4924322"  <br>"4955065"   "4969052"<br>  "5014333"  <br>"5045952"   "5077615"<br>  "5077812"  <br>"5130823").PN. OR<br>("5317653").URPN. | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |
| L145 | 508 | 358/534.ccls.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L146 | 4   | ("5276726"  <br>"5574212"   "5625137"<br>  "5670719").PN. OR<br>("7130477").URPN.   | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |
| L147 | 2   | "20030169440"   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L148 | 60  | L140 and L141   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L149 | 2   | "20040085591"   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L150 | 76  | L141 and L142   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L151 | 9   | ("4654721"  <br>"5121447"   "5608821"<br>  "5809177").PN. OR<br>("6449061").URPN.   | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |
| L152 | 332 | (reduc\$3 decreas\$3)<br>with image with noise<br>and bit and half\$3   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L153 | 27  | L141 and L152   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |

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|------|-----|---|--|----|----|---------------------|
| L154 | 107 | L141 and L143   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L155 | 48  | ("4654721"  <br>"4829587"   "4924322"<br>  "5060284"  <br>"5107346"   "5121447"<br>  "5210602"  <br>"5243445"   "5258854"<br>  "5271070"  <br>"5274472"   "5317653"<br>  "5327256"  <br>"5374997"   "5404176"<br>  "5410615"  <br>"5442461"   "5506699"<br>  "5528384"  <br>"5530561"  <br>"5608821").PN. OR<br>("5809177").URPN. | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |
| L156 | 6   | ("5528339"  <br>"5724456"   "5774599"<br>  "6285798"  <br>"6370265"  <br>"6563945").PN. OR<br>("7116838").URPN.   | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |
| L157 | 106 | huang-yin-chun.in.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L158 | 69  | "4955065"   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L159 | 7   | cheng-chung-wei.in.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L160 | 60  | L140 and L141   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L161 | 885 | 358/3.26.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |

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|------|------|---|--|----|----|---------------------|
| L162 | 46   | (reduc\$3 decreas\$3)<br>near3 (bit color adj<br>level) same (noise<br>artifact) and half\$3                    | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L163 | 1359 | (reduc\$3 decreas\$3)<br>with (bit color adj<br>level) and half\$3  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L164 | 41   | L161 and L163   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L165 | 37   | ("3244808"  <br>"4667251"   "5111310"<br>  "5323247"  <br>"5341228"  <br>"5477305").PN. OR<br>("5553200").URPN. | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |
| L166 | 9    | (reduc\$3 decreas\$3)<br>with (image near<br>noise) and ((reduc\$3<br>decreas\$3)near3 bit)<br>and half\$3      | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L167 | 885  | 358/3.26.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L168 | 332  | (reduc\$3 decreas\$3)<br>with image with noise<br>and bit and half\$3   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L169 | 27   | L168 and L167   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L170 | 211  | (reduc\$3 decreas\$3)<br>near2 bit same (noise<br>near2 level)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L171 | 1    | (reduc\$3 decreas\$3)<br>near2 bit same (noise<br>near2 level) and half\$3                                      | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |

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|------|-------|---|--|----|----|---------------------|
| L172 | 4944  | (reduc\$3 decreas\$3)<br>with image with noise<br>and bit   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L173 | 508   | 358/534.ccls.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L174 | 885   | 358/3.26.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L175 | 1677  | (reduc\$3 decreas\$3)<br>with (noise bit) and<br>noise and halfton\$3   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L176 | 78390 | (reduc\$3 decreas\$3)<br>with (noise bit) and<br>noise and bit  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L177 | 107   | L174 and L176   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L178 | 39    | ("43397764"  <br>"4733230"   "4876610"<br>  "4924322"  <br>"4955065"   "4969052"<br>  "5014333"  <br>"5045952"   "5077615"<br>  "5077812"  <br>"5130823").PN. OR<br>("5317653").URPN. | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |
| L179 | 78390 | (reduc\$3 decreas\$3)<br>with (noise bit) and<br>noise and bit  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L180 | 885   | 358/3.26.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |

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| L181 | 2    | "20040085591"  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L182 | 9    | (reduc\$3 decreas\$3)<br>with (image near<br>noise) and ((reduc\$3<br>decreas\$3)near3 bit)<br>and half\$3 | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L183 | 9    | ("4654721"  <br>"5121447"   "5608821"<br>  "5809177").PN. OR<br>("6449061").URPN.                          | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |
| L184 | 885  | 358/3.26.ccls.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L185 | 332  | (reduc\$3 decreas\$3)<br>with image with noise<br>and bit and half\$3                                      | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L186 | 0    | 358/427.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L187 | 332  | (reduc\$3 decreas\$3)<br>with image with noise<br>and bit and half\$3                                      | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L188 | 27   | L174 and L187  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L189 | 4944 | (reduc\$3 decreas\$3)<br>with image with noise<br>and bit  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |

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| L190 | 48   | ("4654721"  <br>"4829587"   "4924322"<br>  "5060284"  <br>"5107346"   "5121447"<br>  "5210602"  <br>"5243445"   "5258854"<br>  "5271070"  <br>"5274472"   "5317653"<br>  "5327256"  <br>"5374997"   "5404176"<br>  "5410615"  <br>"5442461"   "5506699"<br>  "5528384"  <br>"5530561"  <br>"5608821").PN. OR<br>("5809177").URPN. | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |
| L191 | 2    | "20040085591"   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L192 | 76   | L174 and L175   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L193 | 2    | "20030169440"   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L194 | 7    | cheng-chung-wei.in.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L195 | 1359 | (reduc\$3 decreas\$3)<br>with (bit color adj<br>level) and half\$3  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L196 | 6    | ("5528339"  <br>"5724456"   "5774599"<br>  "6285798"  <br>"6370265"  <br>"6563945").PN. OR<br>("7116838").URPN.   | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |
| L197 | 211  | (reduc\$3 decreas\$3)<br>near2 bit same (noise<br>near2 level)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |

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| L198 | 39  | ("43397764"  <br>"4733230"   "4876610"<br>  "4924322"  <br>"4955065"   "4969052"<br>  "5014333"  <br>"5045952"   "5077615"<br>  "5077812"  <br>"5130823").PN. OR<br>("5317653").URPN. | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |
| L199 | 9   | ("4654721"  <br>"5121447"   "5608821"<br>  "5809177").PN. OR<br>("6449061").URPN.   | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |
| L200 | 885 | 358/3.26.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L201 | 1   | (reduc\$3 decreas\$3)<br>near2 bit same (noise<br>near2 level) and halfon<br>\$3  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L202 | 332 | (reduc\$3 decreas\$3)<br>with image with noise<br>and bit and halfon\$3   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L203 | 60  | L172 and L174   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L204 | 46  | (reduc\$3 decreas\$3)<br>near3 (bit color adj<br>level) same (noise<br>artifact) and halfon\$3  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L205 | 6   | ("5528339"  <br>"5724456"   "5774599"<br>  "6285798"  <br>"6370265"  <br>"6563945").PN. OR<br>("7116838").URPN.   | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |
| L206 | 106 | huang-yin-chun.in.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |

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| L207 | 508  | 358/534.ccls.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L208 | 106  | huang-yin-chun.in.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L209 | 69   | "4955065"   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L210 | 7    | cheng-chung-wei.in.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L211 | 37   | ("3244808"  <br>"4667251"   "5111310"<br>  "5323247"  <br>"5341228"  <br>"5477305").PN. OR<br>("5553200").URPN. | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2008/10/30<br>12:03 |
| L212 | 1677 | (reduc\$3 decreas\$3)<br>with (noise bit) and<br>noise and half\$3  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L213 | 27   | L185 and L200   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L214 | 60   | L189 and L180   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L215 | 27   | L180 and L202   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L216 | 76   | L180 and L212   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |



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| L217 | 4   | ("5276726"   "5574212"   "5625137"   "5670719").PN. OR ("7130477").URPN.   | US-PGPUB; USPAT; USOCR                             | OR | ON | 2008/10/30 12:03 |
| L218 | 69  | "4955065"  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/30 12:03 |
| L219 | 48  | ("4654721"   "4829587"   "4924322"   "5060284"   "5107346"   "5121447"   "5210602"   "5243445"   "5258854"   "5271070"   "5274472"   "5317653"   "5327256"   "5374997"   "5404176"   "5410615"   "5442461"   "5506699"   "5528384"   "5530561"   "5608821").PN. OR ("5809177").URPN. | US-PGPUB; USPAT; USOCR                             | OR | ON | 2008/10/30 12:03 |
| L220 | 107 | L180 and L179  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/30 12:03 |
| L221 | 60  | L189 and L180  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/30 12:03 |
| L222 | 2   | "20030169440"  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/30 12:03 |
| L223 | 4   | ("5276726"   "5574212"   "5625137"   "5670719").PN. OR ("7130477").URPN.   | US-PGPUB; USPAT; USOCR                             | OR | ON | 2008/10/30 12:03 |
| L224 | 588 | 358/3.27.ccls.   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/30 12:03 |

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| L225 | 41   | L184 and L195  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L226 | 667  | 358/3.06.ccls.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L227 | 1346 | (reduc\$3 decreas\$3)<br>with bit and half\$3                                  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L228 | 601  | (reduc\$3 decreas\$3)<br>near2 bit and half\$3                                 | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L229 | 511  | (reduc\$3 decreas\$3)<br>near2 bit and half\$3<br>and color                    | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L230 | 84   | (compos\$3 combin\$3<br>add\$3) with half\$3<br>adj pattern                    | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L231 | 128  | (reduc\$3 decreas\$3)<br>near2 bit same half\$3<br>\$3 and color               | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L232 | 68   | (reduc\$3 decreas\$3)<br>near2 bit same half\$3<br>\$3 same color              | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L233 | 26   | (reduc\$3 decreas\$3)<br>near2 bit same half\$3<br>\$3 same color and<br>noise | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L234 | 49   | (reduc\$3 decreas\$3)<br>with bit same half\$3<br>same color and noise         | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |

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| L235 | 6      | L227 and L230   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L236 | 19     | "6606168"   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L237 | 3513   | (reduc\$3 decreas\$3)<br>near2 noise and (reduc<br>\$3 decreas\$3) near2<br>bit             | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L238 | 77     | (reduc\$3 decreas\$3)<br>near2 noise and (reduc<br>\$3 decreas\$3) near2<br>bit and half\$3 | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L239 | 5285   | reproduc\$3 same<br>(half\$3tone)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L240 | 114568 | (decreas\$3 reduc\$3)<br>near3 (bit color)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L241 | 531    | L239 and L240   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L242 | 1134   | reproduc\$3 same<br>(contone con\$1tone)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L243 | 114568 | (decreas\$3 reduc\$3)<br>near3 (bit color)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L244 | 139    | L242 and L243   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |

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| L245 | 3574 | (decreas\$3 reduc\$3)<br>near2 bit same noise  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L246 | 9    | (decreas\$3 reduc\$3)<br>near2 bit with noise<br>and half\$3                               | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L247 | 33   | (decreas\$3 reduc\$3)<br>near2 bit same noise<br>and half\$3                               | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L248 | 396  | process\$3 near3 image<br>with lossless  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L249 | 1    | process\$3 near3 image<br>with lossless same<br>(decreas\$3 reduc\$3)<br>near2 noise       | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L250 | 1    | process\$3 near3 image<br>with lossless same<br>((decreas\$3 reduc\$3)<br>near2 noise)     | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L251 | 246  | process\$3 near3 image<br>with lossless and scan<br>\$4                                    | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |
| L252 | 336  | (process\$3 decod\$3<br>recombin\$3 combin\$3)<br>near3 image with<br>lossless and scan\$4 | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/30<br>12:03 |

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